### INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/002184

### A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C08L 63/00, C01B 33/44, C08K 3/34

According to International Patent Classification (IPC) or to both national classification and IPC

### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup> C08L 63/00, C01B 33/44, C08K 3/34

Documentation searched other than minimum documentation to the extent that such documents are included in the fields

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms STN CAPLUS, REGISTRY

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant	Relevant to claim No(s).		
X	LIU, WEIPING et al, Organoclay modified high performance epoxy, 1-6, 8-12, 20-23, 25			
Y	48th International SAMPE Symposium, 11-15 May 2003, Book 1, pages 142-154, ISSN 0891-0138 the whole document	13, 24, 26		
Y	US 6107387 A (KAYLO, ALAN J. et al) 22 Aug. 2000 (2000-08-22) the whole document	1, 2, 4, 5, 11, 12, 26		
Y	US 2003/0039812 A1 (TSAI, TSUNG-YEN et al) 27 Feb. 2003 (2003-02-27) the whole document	1, 2, 4, 5, 11, 12, 26		

#### [X] See patent family annex. [X] Further documents are listed in the continuation of Box C.

Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
"E" earlier application or patent but published on or after the international

filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other

the priority date claimed

document published prior to the international filing date but later than

later document published after the international filing date or

priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an

inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document

is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family document member of the same patent family

	والمراجع
Date of the actual completion of the international search	Date of mailing of the international search report
8 March 2005 (08-03-2005)	04 May 2005 (04-05-2005)
Name and mailing address of the ISA/CA  Canadian Intellectual Property Office  Place du Portage I, C114 - 1st Floor, Box PCT  50 Victoria Street  Gatineau, Quebec K1A 0C9	Authorized officer Tony F. Neppel (819) 997-2890
Facsimile No: 001(819)953-2476	

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International Application No. PCT/CA2004/002184

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C (Continua	ation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y	EP 1038913 A1 (AMCOL INTERNATIONAL CORP.) 27 Sep. 2000 (2000-09-27) the whole document	4, 5, 26
Y	LEBARON, PETER C. et al, Polymer-layered silicate nanocomposites, Applied Clay Science 1999, Vol. 15, pages 11-29 ISSN 0169-1317 the whole document	11, 12
Y	GAM, K. T. et al, Fracture behavior of core-shell rubber-modified clay-epoxy, Polymer Engineering and Science, October 2003, Vol. 43, No.10, pages 1635- 1645 ISSN 0032-3888 the whole document	11, 13, 24
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/CA2004/002184

Patent Document Cited in Search Report	Publication	Patent Family	Publication
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EP1038913	27-09-2000	CA2218303 A1 CA2218356 A1 CA2223350 A1 CA2299705 A1 EP0846660 A2 EP0846661 A2 EP0846662 A2 JP10194727 A JP10273314 A JP11060983 A JP2000297203 A MXPA00002760 A US5952095 A US6057396 A US6124365 A	06-06-1998 06-06-1998 06-06-1998 19-09-2000 10-06-1998 10-06-1998 28-07-1998 13-10-1998 05-03-1999 24-10-2000 24-04-2002 14-09-1999 02-05-2000 26-09-2000